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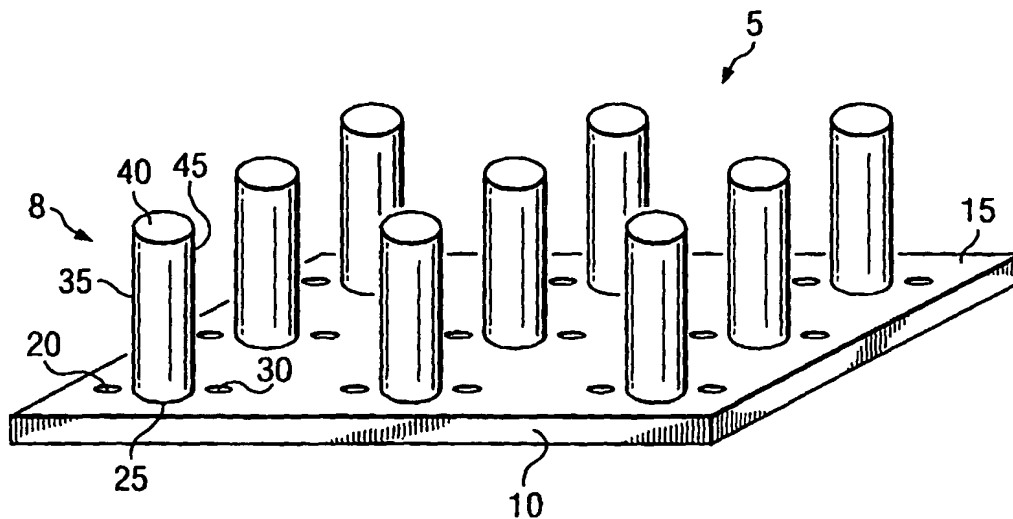
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(54) Title: METHOD FOR CREATING A FUNCTIONAL INTERFACE BETWEEN A NANOPARTICLE, NANOTUBE OR NANOWIRE, AND A BIOLOGICAL MOLECULE OR SYSTEM



(57)-Abstract: A field effect transistor and a method for making the same. In one embodiment, the field effect transistor comprises a source; a drain; a gate; at least one carbon nanotube on the gate; and a dielectric layer that coats the gate and a portion of the at least one carbon nanotube, wherein the at least one carbon nanotube has an exposed portion that is not coated with the dielectric layer, and wherein the exposed portion is functionalized with at least one indicator molecule. In other embodiments, the field effect transistor is a biochem-FET